Customer No.: 31561 Application No.: 10/604,792 Docket No.: 9740-US-PA

## <u>AMIENDMENT</u>

Please amend the application as indicated hereafter.

## In the Claims:

1.-9. (cancelled).

10. (original)A process of fabricating a tump structure, comprising the steps of: forming an under-ball-metallurgy layer over a wafer;

pressure bonding a bonding mass onto the upper surface of the under-ball-metallurgy layer;

removing a portion of the under-ball-metallurgy layer so that only a residual under-ball-metallurgy layer remains underneath the bonding mass;

forming a solder material over the bonding mass; and

conducting a reflow process to solidify the solder material into a bump above the bonding mass.

11. (original)The process of claim 10, wherein the step of forming an under-ball-metallurgy layer over the wafer includes the sub-steps of:

forming an adhesion layer over the wafer; and

forming a barrier layer over the adhesion layer.

- 12. (original) The process of claim 11, wherein material constituting the adhesion layer is selected from the group consisting of titanium, titanium-tungsten alloy, aluminum and chromium.
  - 13. (original) The process of claim 11, wherein material constituting the barrier

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layer is selected from the group consisting of nickel-vanadium alloy and nickel.

- 14. (original) The process of claim 10, wherein material constituting the bonding mass includes copper.
- 15. (original)The process of claim 10, wherein the bonding mass has a thickness between about 4 to about 10 µm.
- 16. (original) The process of claim 10, wherein material constituting the bump includes a lead-tin alloy.
- 17. (original)The process of claim 10, wherein material constituting the bump includes a lead-free alloy.
- 18. (original) The process of claim 17, wherein material constituting the bump is selected from the group consisting of tin, gold, silver, copper, bismuth, antimony, indium, zinc or combinations thereof in the form of an alloy.